

Figure 1: Schematic of BSPD

The BSPD PCB is located in the front "Sensor-Node" (mainly there to transfer the analog data to CAN), in which a separate compartment is created to ensure the BSPD can be separated sealed without affecting other parts in the same housing.

Test Procedure

1. apply external test current to the simulation coil
2. brake hard (with brake pressure $\geq 30\text{bar}$)

Test Current Calculation

$$I_{test} = 5\text{kW}/V_{max} = 5\text{kW}/403.2\text{V} = 12.401\text{A}$$

12 windings \rightarrow test current $\approx 1.034\text{A}$

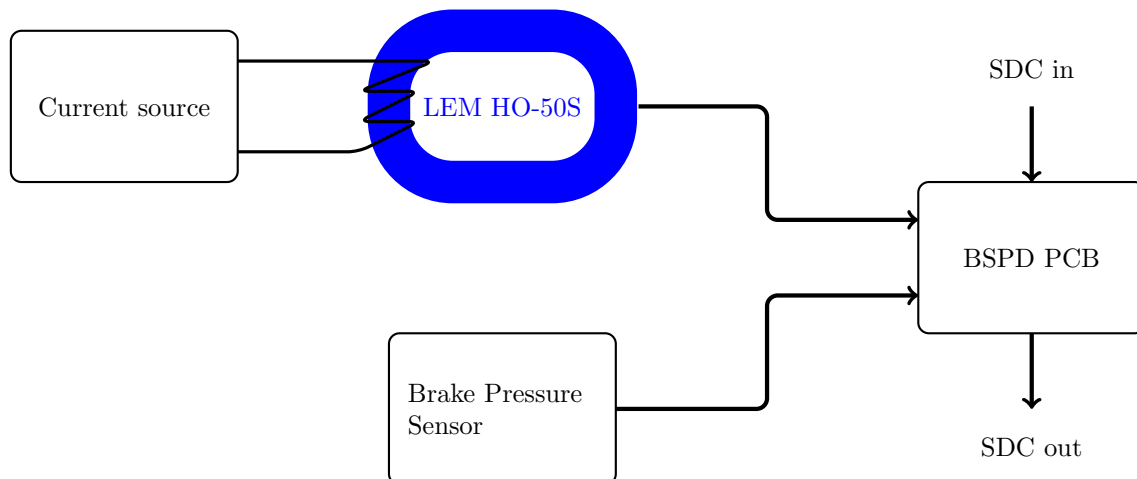


Figure 2: current simulation schematic

Reference

- [1] *LEM HO 50-S-0100 TS Current Sensor Datasheet*. www.lem.com, 03.2022/V7